nicolagiacchetta
software engineer

contact

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languages

Italian: mother tongue
English: advanced
French: conversational
Spanish: conversational

skills

Java Ecosystem:
Java, Gradle, Maven,
Jenkins, Dropwizard,
Tomcat, JUnit, Mockito
**Message/Streaming
Platform**: Apache Kafka
Databases:
MySql, Couchbase
Cloud Services:
AWS Dynamo DB,
Google Cloud Datastore
Collaboration Tools:
GitHub, SVN, Perforce
Frontend: Html5, CSS3,
Javascript, JQuery
Other: Consul, Docker,
Nomad, Bash, XML, JSON,
Python, C/C++

interests

Professional
Distributed Systems
Databases
Microservices
Clean Code

Personal
football
tennis
music
vinyls
cooking
photography
traveling

education

Master of Computer Engineering   Napoli, Italy | Oct 2015
Università degli Studi di Napoli Federico II
Thesis: *Resource efficient sensor allocation for geographic range queries in IoT Service Orchestration.*
Final Grade: *110/110*
Bachelor of Computer Engineering   Napoli, Italy | Dec 2011
Università degli Studi di Napoli Federico II

work experience

Software Engineer, Infrastructure *Facebook*   London, UK | Sep 2020–Present
The Software Engineering Infrastructure team builds large distributed components that run Facebook. Our code serves millions of requests per second and it does so with sub-second latency and in a fault tolerant manner.

Java Backend Developer *Vonage*   London, UK | Dec 2016–Aug 2020
Designed and maintained the core backend of a Cloud Communication Platform, mainly focused on services High-Availabilitization, data replication and data migration.
- worked on a tool for Change Data Capture to perform MySQL Binlog Mining for Master-Slave replication, changes notifications and generation of materialized view to implement a CQRS-style architecture
- worked on database migrations
- extracted microservices from a complex monolithic application
- implemented a service to perform Failure Detection and health statuses aggregation
- worked on performance bottlenecks due to the low cardinality of AWS Dynamo DB indexes
- worked on a data pipeline to anonymize users' PIIs in the platform to comply with the GDPR
- mentored junior team members and took part in several hiring processes

Software Engineer *EidosMedia*   Milan, Italy | Dec 2015–Oct 2016
Developed a software layer to expose the core functionalities of the backend of a Digital Content Publishing Platform via RESTful APIs.
- developed new RESTful APIs
- developed algorithms to manage the internal document model of the platform
- increased unit test coverage (from ~30% to ~90%)
- refactored a key internal web service reducing its codebase from ~5000 to ~4000 LoC
- implemented a plugin for the integration with the Apple News API

Research & Development Intern *NEC Laboratories Europe*   Heidelberg, Germany | Jan–Jun 2015
Built a Java module implementing a resource efficient sensor allocation algorithm for geographic range queries to be integrated in the IoT Broker GE.
- carried out most of the scientific research to find an algorithmic solution for the problem
- implemented the chosen algorithm in Java and a JavaFX-based simulation environment

extra curricular activities

O'Reilly: Software Architecture Conference *Conference Talk*   Berlin, DE | 4-7 Nov 2019
Extensible autonomous transactions in the world of microservices

ApacheCon Europe 2019 *Conference Talk*   Berlin, DE | 22-24 Oct 2019
Extensible Autonomous Transactions In The World of Microservices using Apache Kafka

Team Kanban Practitioner (TKP) *Lean Kanban University*   London, UK | Jun 2017
Completed training in improved collaboration and Team Kanban concepts based on the Kanban method and accepted by Lean Kanban University as a Team Kanban Practitioner.

Co-Founder & Administrator *Zerottouno.it*   Naples, Italy | Jan 2012–Feb 2013
Co-founded a website where the users could get all-round information about the town of Naples. The aim was to create a virtual community built around a news aggregator.
- co-managed a team of 9 people (6 bloggers, 1 UI designer, 2 Developers)
- built a community of thousands of active users (~N x 100K unique page-views per Month)